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1 Routine/Function Prologues

1.0.1 lisdrv.F90 - Main program for LIS (Source File: lisdrv.F90)

Main driver program for LIS. It initializes the boundary conditions, allocates memory for the required variables, sets up appropriated model parameters, performs the I/O for forcing and land models, in addition to calling the appropriate land model over different time steps and geographical domains.

1.1 Function calls for main routines:

The function calls are:

LIS_domain_init Initializes the domain variables

LIS_allocate_memory Allocates memory for modules, variables

LIS_lsm_init Initializes land surface model run parameters

LIS_baseforcing_init Initializes model forcing variables

LIS_readrestart Reads the restart files

LIS_setuplsm Completes initialization of the land surface model

LIS_ticktime Manages the advancement of time

LIS_endofrun Checks if the end of simulation is reached

LIS_get_base_forcing Reads, interpolates model forcing

LIS_force2tile Transfers grid forcing to model tiles.

LIS_lsm_main Executes land surface model runs.

LIS_lsm_output Writes land surface model output

LIS_write_restart Writes restart files

REVISION HISTORY:

14Nov02 Sujay Kumar Initial Specification

USES:

```
use precision
use lisdrv_module
use lsm_module
use baseforcing_module
use obsprecipforcing_module
use obsradforcing_module
use spmdMod
```

CONTENTS:

```
call LIS_domain_init
call LIS_allocate_memory
call LIS_lsm_init
call LIS_allocate_lsm
call LIS_baseforcing_init
call LIS_obsprecipforcing_init
call LIS_obsradforcing_init
call LIS_readrestart
call LIS_setuplsm
do while (.NOT. LIS_endofrun())
    call LIS_ticktime
    call LIS_setDynlsm
    call LIS_get_base_forcing
    call LIS_get_obsprecip_forcing
    call LIS_get_obsrad_forcing
    call LIS_force2tile
    call LIS_lsm_main
    call LIS_lsm_output
    call LIS_writerestart
enddo
```